Class name: SY CSE(IOT)

Rollno: 2007

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Batch: S1

EXPERIMENT 7

- 7. Handle Exceptions using python built in Exceptions
- a) Demonstrate a python code to implement abnormal termination?

```
CODE:-
def divide_by_zero():
    result = 10 / 0
try:
    divide_by_zero()
except ZeroDivisionError:
    print("Error: Division by zero occurred. Abnormal termination.")
```

OUTPUT:-

```
Error: Division by zero occurred. Abnormal termination.

Process finished with exit code 0
```

b) Demonstrate a python code to print try, except and finally block statements.

```
CODE:-
def divide(x, y):
    try:
        result = x / y
        print(f"Result of division: {result}")
    except ZeroDivisionError:
        print("Error: Division by zero occurred.")
    finally:
        print("Finally block executed.")

print("Test Case 1:")
divide(10, 2)

print("\nTest Case 2:")
```

```
divide(10, 0)
print("\nTest Case 3:")
divide("10", 2)
```

OUTPUT:-

c) Write a program to create user defined exception in python.

```
CODE:-
class CustomError(Exception):
    def __init__(self, message):
        self.message = message

def validate_age(age):
    if age < 18:
        raise CustomError("Age must be 18 or above.")

try:
    user_age = int(input("Enter your age: "))
    validate_age(user_age)
    print("Age is valid.")

except CustomError as e:
    print(f"Custom Error: {e.message}")

except ValueError:
    print("Error: Please enter a valid integer for age.")</pre>
```

OUTPUT:-

C:\Users\Dragon\AppData\Local\Programs\
Enter your age: 10
Custom Error: Age must be 18 or above.
Process finished with exit code 0